Trying 9351006...Open

Welcome to STN International! Enter x:x

LOGINID:ssspta1805sxm

COST IN U.S. DOLLARS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Feb 2 Web Page URLs for STN Seminar Schedule - N. America

NEWS 2 Mar 24 STN Express 4.1 with Discover! for Windows Now

Available

NEWS 3 May 18 Variable SDI Frequencies Now Available in EMBAL

NEWS EXPRESS Discover! is Year 2000 Compliant

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

SINCE FILE

ENTRY

TOTAL

0.30

SESSION

FILE 'HOME' ENTERED AT 16:12:14 ON 28 MAY 1998

=> file medline biosis embase caplus scisearch

<u>-</u>

FULL ESTIMATED COST 0.30

FILE 'MEDLINE' ENTERED AT 16:13:29 ON 28 MAY 1998

FILE 'BIOSIS' ENTERED AT 16:13:29 ON 28 MAY 1998 COPYRIGHT (C) 1998 BIOSIS(R)

FILE 'EMBASE' ENTERED AT 16:13:29 ON 28 MAY 1998 COPYRIGHT (C) 1998 Elsevier Science B.V. All rights reserved.

FILE 'CAPLUS' ENTERED AT 16:13:29 ON 28 MAY 1998 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 1998 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'SCISEARCH' ENTERED AT 16:13:29 ON 28 MAY 1998 COPYRIGHT (C) 1998 Institute for Scientific Information (ISI) (R)

=> s nf kappa beta L1 81 NF KAPFA BETA

=> s nf kb

L2 1510 NF KB

=> s nf kappa b

L3 19775 NF KAPPA B

=> s 11 or 12 or 13

L4 20599 L1 OR L2 OR L3

=> s 14 and (antagonist or decoy or aptamer)

L5 402 L4 AND (ANTAGONIST OR DECOY OR APTAMER)

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 178 DUP REM L5 (224 DUPLICATES REMOVED)

=> s 16 and oligonucleotide#

L7 24 L6 AND OLIGONUCLEOTIDE#

=> d 1-24 ti

- L7 ANSWER 1 OF 24 MEDLINE
- TI Use of phosphorothioate-modified oligodeoxynucleotides to inhibit NF-kappaB expression and lymphocyte function.
- L7 ANSWER 2 OF 24 MEDLINE
- TI A novel strategy for myocardial protection using in vivo transfection of cis element 'decoy' against NFkappaB binding site: evidence for a role of NFkappaB in ischemia-reperfusion injury.
- L7 ANSWER 3 OF 24 MEDLINE
- TI Controversies in the cellular pharmacology of oligodeoxynucleotides.
- L7 ANSWER 4 OF 24 MEDLINE
- TI In vivo transfection of cis element "decoy" against nuclear factor-kappaB binding site prevents myocardial infarction [see comments].
- L7 ANSWER 5 OF 24 MEDLINE
- TI Hypoxia induces cyclooxygenase-2 via the NF-kappaB p65 transcription factor in human vascular endothelial cells.
- L7 ANSWER 6 OF 24 MEDLINE
- TI Manipulation of distinct NFkappaB proteins alters interleukin-lbeta-induced human rheumatoid synovial fibroblast prostaglandin E2 formation.
- L7 ANSWER 7 OF 24 MEDLINE
- TI Induction of neuroprotective kappa B-dependent transcription by secreted forms of the Alzheimer's beta-amyloid precursor.
- L7 ANSWER 8 OF 24 MEDLINE
- TI The NF-kappaB transcription factor in oncogenesis.

- L7 ANSWER 9 OF 24 DLINE
- TI Transcription factor **decoy** approach to decipher the role of NF-kappa B in oncogenesis.
- L7 ANSWER 10 OF 24 MEDLINE
- TI Sequence-specific interaction of alpha-beta-anomeric double-stranded DNA with the p50 subunit of **NF kappa B** : application to the **decoy** approach.
- L7 ANSWER 11 OF 24 MEDLINE
- TI Interleukin 1 induces expression of the human immunodeficiency virus alone and in synergy with interleukin 6 in chronically infected U1 cells: inhibition of inductive effects by the interleukin 1 receptor antagonist.
- L7 ANSWER 12 OF 24 MEDLINE
- TI Inhibition of phorbol ester-induced cellular adhesion by competitive binding of NF-kappa B in vivo.
- L7 ANSWER 13 OF 24 MEDLINE
- TI Aurothioglucose inhibits induced NF-kB and AP-1 activity by acting as an IL-1 functional antagonist.
- L7 ANSWER 14 OF 24 MEDLINE
- TI Interleukin 1 induces NF-kappa B
 through its type I but not its type II receptor in lymphocytes.
- L7 ANSWER 15 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
- TI Neuroprotection by dehydroepiandrosterone-sulfate: Role of an NFkB-like factor.
- L7 ANSWER 16 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
- TI Feasibility of **decoy** strategy by targeting the transcription factor **NF-kappa-B** in anti-GBM nephritis.
- L7 ANSWER 17 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
- TI Thiol agents and Bcl-2 identify an alphavirus-induced apoptotic pathway that requires activation of the transcription factor NF-kappa B.
- L7 ANSWER 18 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
- TI Inhibition of human mesangial cell proliferation by decoy oligonucleotide targeting the transcription factor, NF-kappa-B.
- L7 ANSWER 19 OF 24 CAPLUS COPYRIGHT 1998 ACS
- TI Remedy and preventive for diseases caused by NF-. kappa.B
- L7 ANSWER 20 OF 24 CAPLUS COPYRIGHT 1998 ACS
- TI Gene therapy of renal diseases
- L7 ANSWER 21 OF 24 CAPLUS COPYRIGHT 1998 ACS
- TI In vivo therapeutic use of **oligonucleotide** cis-element decoys for transcription factor binding
- L7 ANSWER 22 OF 24 SCISEARCH COPYRIGHT 1998 ISI (R)
- TI Antisense oligonucleotide therapeutics for human leukemia
- L7 ANSWER 23 OF 24 SCISEARCH COPYRIGHT 1998 ISI (R)
- TI A 361 base pair region of the rat FSH-beta promoter contains multiple progesterone receptor-binding sequences and confers progesterone responsiveness

=> d 1 2 3 4 8 9 12 16 18 20 21

- L7 ANSWER 1 OF 24 MEDLINE
- AN 1998141999 MEDLINE
- DN 98141999
- TI Use of phosphorothioate-modified oligodeoxynucleotides to inhibit NF-kappaB expression and lymphocyte function.
- AU Khaled A R; Butfiloski E J; Sobel E S; Schiffenbauer J
- CS Division of Rheumatology and Clinical Immunology, University of Florida, Gainesville, Florida 32620, USA.
- SO CLINICAL IMMUNOLOGY AND IMMUNOPATHOLOGY, (1998 Feb) 86 (2) 170-9. Journal code: DEA. ISSN: 0090-1229.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals; Cancer Journals
- EM 199805
- EW 19980501
- L7 ANSWER 2 OF 24 MEDLINE
- AN 1998045878 MEDLINE
- DN 98045878
- TI A novel strategy for myocardial protection using in vivo transfection of cis element 'decoy' against NFkappaB binding site: evidence for a role of NFkappaB in ischemia-reperfusion injury.
- AU Sawa Y; Morishita R; Suzuki K; Kagisaki K; Kaneda Y; Maeda K; Kadoba K; Matsuda H
- CS First Department of Surgery, Institute for Cellular and Molecular Biology, and Fujisawa Pharmaceutical Co, Ltd, Osaka University Medical School, Suita, Japan.
- SO CIRCULATION, (1997 Nov 4) 96 (9 Suppl) II-280-4; discussion II-285. Journal code: DAW. ISSN: 0009-7322.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Abridged Index Medicus Journals; Priority Journals
- EM 199802
- EW 19980204
- L7 ANSWER 3 OF 24 MEDLINE
- AN 1998044827 MEDLINE
- DN 98044827
- TI Controversies in the cellular pharmacology of oligodeoxynucleotides.
- AU Stein C A
- CS Department of Medicine, Columbia University, College of Physicians and Surgeons, New York 10032, USA.
- NC 60639
- SO CIBA FOUNDATION SYMPOSIUM, (1997) 209 79-89; discussion 89-93. Ref: 34
 - Journal code: D7X. ISSN: 0300-5208.
- CY Netherlands
- DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
- LA English
- FS Priority Journals
- EM 199803
- EW 19980304

```
ANSWER 4 OF 24
L7
                  MEDLINE
AN
     97398383
DN
     97398383
     In vivo transfection of cis element "decoy" against
ΤI
     nuclear factor-kappaB binding site prevents myocardial infarction
     [see comments].
     Comment in: Nat Med 1997 Aug; 3(8):834-5
CM
     Morishita R; Sugimoto T; Aoki M; Kida I; Tomita N; Moriguchi A;
ΑU
     Maeda K; Sawa Y; Kaneda Y; Higaki J; Ogihara T
     Department of Geriatric Medicine, Osaka University Medical School,
CS
     Suita, Japan.
     NATURE MEDICINE, (1997 Aug) 3 (8) 894-9.
SO
     Journal code: CG5. ISSN: 1078-8956.
     United States
CY
     Journal; Article; (JOURNAL ARTICLE)
DT
LΑ
     English
     Priority Journals
FS
EM
     199711
     19971101
EW
     ANSWER 8 OF 24 MEDLINE
L7
                  MEDLINE
ΑN
     96275790
     96275790
DN
     The NF-kappaB transcription factor in oncogenesis.
ΤI
ΑU
     Sharma H W; Narayanan R
     Division of Oncology, Roche Research Center, Hoffmann-La Roche,
CS
     Inc., Nutley, NJ 07110, USA.
     ANTICANCER RESEARCH, (1996 Mar-Apr) 16 (2) 589-96. Ref: 74
SO
     Journal code: 59L. ISSN: 0250-7005.
CY
     Greece
DT
     Journal; Article; (JOURNAL ARTICLE)
     General Review; (REVIEW)
     (REVIEW, TUTORIAL)
     English
LΑ
     Priority Journals; Cancer Journals
FS
     199610
EM
     ANSWER 9 OF 24 MEDLINE
L7
                 MEDLINE
     96200687
ΑN
     96200687
DN
     Transcription factor decoy approach to decipher the role
TТ
     of NF-kappa B in oncogenesis.
     Sharma H W; Perez J R; Higgins-Sochaski K; Hsiao R; Narayanan R
ΑU
     Division of Oncology, Roche Research Center, Hoffman-La Roche Inc.,
CS
     Nutley, NJ 07110, USA.
     ANTICANCER RESEARCH, (1996 Jan-Feb) 16 (1) 61-9.
SO
     Journal code: 59L. ISSN: 0250-7005.
CY
     Greece
     Journal; Article; (JOURNAL ARTICLE)
DT
     English
LΆ
     Priority Journals; Cancer Journals
FS
     199608
EM
     ANSWER 12 OF 24 MEDLINE
L7
     94019327
                  MEDLINE
ΑN
     94019327
DN
     Inhibition of phorbol ester-induced cellular adhesion by competitive
TΙ
     binding of NF-kappa B in vivo.
     Eck S L; Perkins N D; Carr D P; Nabel G J
ΑU
     Department of Internal Medicine, University of Michigan Medical
CS
```

MOLECULAR AND CELLULAR BIOLOGY, (1993 Oct) 13 (10) 6530-6.

Center, Ann Arbor 48109-0650.

United States

Journal code: NGY. ISSN: 0270-7306.

SO

CY

```
Journal; Articl (JOURNAL ARTICLE)
DT
LΑ
     English
     Priority Journals
FS
     199401
EM
    ANSWER 16 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
L7
AN 98:24283 BIOSIS
DN 01024283
TI Feasibility of decoy strategy by targeting the
    transcription factor NF-kappa-B in
    anti-GBM nephritis.
   Tomita N; Morishita R; Hashizume M; Yasuba M; Notake M; Fujitani B;
    Yamamoto K; Lan H; Kaneda Y; Higaki J; Ogihara T
CS Osaka Univ., Suita, Japan
SO 30th Annual Meeting of the American Society of Nephrology, San
    Antonio, Texas, USA, November 2-5, 1997. Journal of the American
    Society of Nephrology 9 (PROGRAM AND ABSTR. ISSUE). 1997. 467A.
    ISSN: 1046-6673
DT Conference
LA English
    ANSWER 18 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
T.7
AN 96:6401 BIOSIS
DN 98578536
TI Inhibition of human mesangial cell proliferation by decoy
  oligonucleotide targeting the transcription factor,
  NF-kappa-B.
AU Kashihara N; Maeshima Y; Sekikawa T; Okamoto K; Kanao K; Sugiyama H;
    Makino H; Ota Z; Yasuda T
CS Okayama Univ. Med. Sch., Okayama, Japan
SO Annual Meeting of the American Society of Nephrology, San Diego,
    California, USA, November 5-8, 1995. Journal of the American Society
    of Nephrology 6 (3). 1995. 834. ISSN: 1046-6673
DT Conference
LA English
     ANSWER 20 OF 24 CAPLUS COPYRIGHT 1998 ACS
L7
     1996:618372 CAPLUS
ΑN
     125:316051
DN
     Gene therapy of renal diseases
ΤI
     Imai, Enyu; Isaka, Yoshitaka; Akagi, Yoshitaka; Ando, Yutaka;
ΑU
     Kaneda, Yasufumi
     Med. Sch., Osaka Univ., Suita, 565, Japan
CS
     Sogo Rinsho (1996), 45(10), 2299-2305
SO
     CODEN: SORIAX; ISSN: 0371-1900
     Journal; General Review
DΤ
     Japanese
LΑ
     ANSWER 21 OF 24 CAPLUS COPYRIGHT 1998 ACS
L7
     1995:753502 CAPLUS
AN
     123:208768
DN
     In vivo therapeutic use of oligonucleotide cis-element
ΤI
     decoys for transcription factor binding
     Dzau, Victor J.; Gibbons, Gary H.; Morishita, Ryuichi
 IN
 PA
     USA
     PCT Int. Appl., 26 pp.
 SO
     CODEN: PIXXD2
     WO 9511687 A1 950504
 PΤ
     W: CA, JP
 DS
      RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     WO 94-US12339 941028
 PRAI US 93-144717 931029
```

DT

LΑ

Patent English

ANSWER 1 OF 24 MEDLINE L7

NF-kappaB is a potential target for immunosuppressive therapy. Two methods were evaluated to inhibit NF-kappaB: the antisense (AS) approach in which single-stranded oligodeoxynucleotides (ODNs) bind the mRNA for the RelA subunit of NF-kappaB and the transcription factor decoy (TFD) approach in which double-stranded ODNs bind the NF-kappaB protein. AS and TFD inhibited NF-kappaB binding and decreased total IgG and anti-dsDNA antibody production in splenocytes from the BXSB/Yaa autoimmune mouse strain. TNF-alpha expression was reduced by AS and TFD, as were the levels of IL-2. But AS effects did not last beyond 24 h, whereas TFD inhibited cytokine production after 72 h. AS had no effect upon IL-6, while the TFD reduced the secretion of IL-6. Therefore, the suppression of immune response mediators by AS or TFD, through inhibition of NF-kappaB, is substantial. These inhibitors can serve as novel choices for therapy in the treatment of autoimmune disorders. Copyright 1998 Academic Press.

ANSWER 2 OF 24 MEDLINE

BACKGROUND: NFkappaB, an important transcriptional factor, has been ABreported to play a significant role in the coordinated transcription of cytokine and adhesion molecule genes. Therefore, blocking the NFkappaB may attenuate ischemia reperfusion injury in the myocardium. For blocking transcriptional factors, gene therapy, such as cis element "decoy," appears to be an innovative and useful therapy. This study aimed to prove the efficacy of cis element decoy against NFkappaB binding site for myocardial protection. METHODS AND RESULTS: Rat hearts were transfected with fluorescence isothiocyanate-labeled cis element decoy against NFkappaB (NF)-binding site (NF group, n=6) and scrambled decoy (SD) group (n=6) by coronary infusion of hemagglutinating virus of Japan (HVJ)-liposome during cardioplegic arrest. Both the NF and SD groups showed marked FITC-staining in the nuclei of myocytes, demonstrating the efficacy of gene transfer into the nuclei of cardiac myocytes as compared with the control group transfected with empty liposomes. After 3 days of transfection, the NF group showed significantly higher percentages of recovery of left ventricular developed pressure (NF versus SD, 87+/-11 versus 54+/-12%) and coronary flow (97+/-16 versus 61+/-15%) than did the control hearts when exposed to ischemia (30 minutes, 37 degrees C) and reperfusion (30 minutes, 37 degrees C). The NF group showed a significantly lower percentage of neutrophil adherence to endothelial cells (38+/-6 versus 81+/-3%) and a lower tissue level of interleukin-8 (109+/-48 versus 210+/-55 ng/mg) than did the SD group. CONCLUSION: The hearts transfected with cis element decoy against NFkappaB binding site showed significant improvement in tolerance against ischemia-reperfusion injury in association with the inhibition of neutrophil adherence and tissue IL-8 production. This suggests that NFkappaB plays a significant role in ischemia-reperfusion injury. This method, using in vivo gene transfection of cis element decoy against NFkappaB binding site, appears to be a novel and future strategy for myocardial protection.

ANSWER 3 OF 24 MEDLINE L7

Phosphodiester and phosphorothicate oligodeoxynucleotides are AB polyanions that cannot passively diffuse across cell membranes. Instead, the processes of adsorbtive endocytosis and pinocytosis probably account for the great majority of oligodeoxynucleotide internalization in most cell types. Oligodeoxynucleotides can adsorb to heparin-binding, cell surface proteins. An example of such a protein is the integrin Mac-1 (alpha M beta 2; CR3; CD11b/CD18), a

receptor for film nogen which is found on neutronails, macrophages and natural kill cells. Up-regulation of neutronail cell surface Mac-1 expression by interleukin 8, arachidonic acrd or tumour necrosis factor alpha leads to increased cell surface oligodeoxynucleotide binding and internalization. Binding and internalization can be blocked by both fibrinogen and by anti-Mac-1 monoclonal antibodies. Subsequent to internalization, oligodeoxynucleotides reside in subcellular vesicular structures, i.e. endosomes and lysosomes. However, in the absence of permeabilizing agents, these compartments may be sites of sequestration and the oligomers may be unavailable for antisense activity. At present, controversy surrounds the use of guanosine-rich phosphorothioate oligodeoxynucleotides as antisense agents. We examined the ability of the 24mer antisense rel A (p65) phosphorothicate oligodeoxynucleotide to inhibit nuclear translocation of NF kappa B in K-BALB murine fibroblasts. 7-Deaza-2'-deoxyguanosine substitution in the 5' quanosine quartet region demonstrated that inhibition of nuclear translocation could not be due to a Watson-Crick antisense effect. Rather, we favour the explanation that the parent molecule may be a sequence-specific, apatameric decoy.

L7 ANSWER 4 OF 24 MEDLINE

The transcriptional factor nuclear factor-kappaB (NFkappaB) plays a AB pivotal role in the coordinated transactivation of cytokine and adhesion molecule genes that might be involved in myocardial damage after ischemia and reperfusion. Therefore, we hypothesized that synthetic double-stranded DNA with high affinity for NFkappaB could be introduced in vivo as "decoy" cis elements to bind the transcriptional factor and to $ar{b}lock$ the activation of genes mediating myocardial infarction, thus providing effective therapy for myocardial infarction. Treatment before and after infarction by transfection of NFkappaB decoy, but not scrambled decoy, oligodeoxynucleotides before coronary artery occlusion or immediately after reperfusion had a significant inhibitory effect on the area of infarction. Here, we report the first successful in vivo transfer of NFkappaB decoy oligodeoxynucleotides to reduce the extent of myocardial infarction following reperfusion, providing a new therapeutic strategy for myocardial infarction.

L7 ANSWER 8 OF 24 MEDLINE

The NF-kappaB transcription factor complex is a pleiotropic AΒ activator that participates in the induction of a wide variety of cellular and viral genes. The active complex is composed of two subunits designated NFKB1 and RelA (formerly called p50 and p65, respectively). Binding sites for NF-kappaB are present in the promoter region of many cell adhesion molecules, cytokines and growth factors. Antisense inhibition of the individual subunits of NF-kappaB exerted differential effects on cell adhesion. Antisense phosphorothicate oligomers to relA but not NFKB1 caused a rapid inhibition of cell adhesion in diverse cell types. Antisense relA oligomers exerted antigrowth effects on diverse transformed cells in vitro and caused a pronounced inhibition of tumorigenicity in nude mice tumor models. Stable transfectants of a fibrosarcoma cell line expressing dexamethasone-inducible antisense RNA to relA also showed inhibition of in vitro growth and in vivo tumor development. In response to inducible expression of antisense RNA, a pronounced tumor regression was seen in nude mice. Use of a "decoy" approach to inhibit RelA function directly also caused inhibition of tumor cell growth in vitro and in vivo. Our results indicate that key regulatory molecules such as transcription factors can be selectively targeted for therapeutic intervention in cancer.

L7

Antisense inhibition of the RelA subunit of NF-kappa B transcription factor (but not the NFKB1 subunit) causes pronounced inhibition of tumor cerl growth in vitro and in vivo. Inhibition of either subunit, however, results in inhibition of the heterodimeric NF-kappa B complex in antisense-treated cells. Either of the subunits of NF-kappa B can form homo- or heterodimers with other members of the Rel oncogene family. In an effort to decipher the role of homo- vs heterodimeric NNF-kappa B in regulating tumor cell growth, we have used a decoy approach to trap these complexes in vivo. Using double-stranded phosphorothicates as a direct in vivo competitor for homo- vs heterodimeric NF-kappa B, we demonstrate that decoys more specific to RelA inhibit growth tumor cell growth in vitro. We demonstrate that RelA, either as a homodimer or a heterodimer with some other members of the Rel family and not the classical NF-kappa B (RelA/NFKB1), is involved in the differential growth control of tumor cells. Our results indicate that such transcription factor decoys can be a non-antisense tool to study the function of DNA-binding transcription factors.

L7 ANSWER 12 OF 24 MEDLINE

Adhesive interactions between cells are essential for the AB organization and function of differentiated tissues and organs and are mediated by inducible cell surface glycoproteins. In normal tissues, cell adhesion molecules contribute to immune regulation, inflammation, and embryogenesis. Additionally, they play an important role in a variety of pathogenic processes. Cell adhesion molecule expression can be induced by stimuli known to activate NF-kappa B, a ubiquitous transcription factor found in a variety of cell types. To investigate the role of NF-kappa B in cell adhesion molecule expression, we treated HL-60 cells with a double-stranded oligonucleotide which specifically inhibits NFkappa B-mediated transcription. This treatment resulted in the inhibition of phorbol 12-myristate 13-acetate (PMA)-induced cellular adhesion, morphological changes, and the expression of leukocyte integrin CD11b. In a similar fashion, expression of intercellular adhesion molecule 1 on human endothelial cells induced by PMA was specifically inhibited by the NFkappa B antagonist. We suggest that NF-kappa B activation is a necessary event for the PMA-induced differentiation of HL-60 cells and the expression of certain activation is a necessary event for the PMA-induced differentiation of HL-60 cells and the expression of certain adhesion molecules. Furthermore, the inhibition of transcription factor functions by this generally applicable mechanism can be used to define their role in cellular differentiation and function.

- L7 ANSWER 16 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
- L7 ANSWER 18 OF 24 BIOSIS COPYRIGHT 1998 BIOSIS
- L7 ANSWER 20 OF 24 CAPLUS COPYRIGHT 1998 ACS
- AB A review with 16 refs., on the methods for gene transfer to target cells in vivo or ex vivo, merits and demerits of HVJ-liposome method, glomerulosclerosis induced by transfection of TGF-.beta. or PDGF-.beta. gene into rat kidney, and gene therapy for glomerulonephritis by HVJ-liposome method. Antisense oligonucleotide of TGF-.beta., decoy oligonucleotide for NF-kB, gene for decorin (natural inhibitor of TGF-.beta.), gene for TGF-.beta. receptor-IgG Fc chimeric protein, and 15-lipoxygenase gene have

therapeutic potential for gene therapy of glomerulonephritis. A new gene transfer mod using mesangial cell vector also introduced.

L7

AΒ

ANSWER 21 OF 24 CAPLUS COPYRIGHT 1998 ACS Oligodeoxynucleotide decoys are provided for prophylactic or therapeutic treatment of diseases assocd. with the binding of endogenous transcription factors to genes involved in cell growth, differentiation, and signaling, or to viral genes. By inhibiting endogenous trans-activating factors from binding transcription regulatory regions, the decoys modulate gene expression and thereby regulate pathol. processes including inflammation, intimal hyperplasia, angiogenesis, neoplasia, immune responses, and viral infection. The decoys are administered in amts. and under conditions whereby binding of the endogenous transcription factor to the endogenous gene is effectively competitively inhibited without significant host toxicity. The subject compns. comprise the decoy mols. in a context which provides for pharmacokinetics sufficient for effective therapeutic use. Thus, a 14-bp double-stranded DNA oligonucleotide (5'-CTAGATTTCCCGCG-3'/3'-TAAAGGGCGCCTAG-5') was transfected into vascular smooth muscle cells and shown to effectively abolish the binding of the E2F transcription factor to a specific binding site in serum-stimulated cells. Induction of c-myc, cdc2, and PCNA mRNA expression in response to serum stimulation was markedly inhibited by transfection of the E2F decoy, whereas there was no effect on .beta.-actin mRNA expression. Phosphatidylserine/phosphatidylcholin e/cholesterol liposomes contg. inactivated hemagglutinating virus of Japan (Z strain) were used to encapsulate the dsDNA decoys, resulting in a more rapid cellular uptake and nuclear concn., and a 100-fold higher transfection efficiency than lipofection or passive uptake methods. Neg. response element (NRE):NRE-binding protein interaction responsible for silencing of renin Renl gene expression was also affected by dsDNA decoys in cell line (SCA-9) derived from a submandibular gland tumor.

08/ Page 1

Trying 01082...Open

PLEASE ENTER HOST PORT ID: PLEASE ENTER HOST PORT ID:x LOGINID: d185sxm PASSWORD:

... 19 *

TERMINAL (ENTER 1, 2, 3, 4, OR ?): \square 3

```
Welcome to MESSENGER (APS Text) at USPTO
    The USPTO production files are current through:
    MAY 26 1998 for U.S. Patent Text Data.
    MAY 26 1998 for U.S. Current Classification data.
    MAY 26 1998 for U.S. Patent Image Data.
      * PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER *
* More U.S. patent data is now available on APS. The new
* USOCR file contains patents issued in 1970, plus some
* patents that were missing from the USPAT file. See the
* Patents News Folder under the Public Folders in e-mail for
* more information on using the new file. Thank you.
DISCLAIMER:
 Neither the United States Government, nor any agency
  thereof, nor any of their contractors, subcontractors or
  employees make any warranty, expressed or implied,
  including any warranty of marketability of fitness for a
  particular purpose; nor assumes any legal liability or
  responsibility for any party's use, or the results of
  such, of the data.
 Help Desk --> 703-305-9000
    The Help Desk is staffed for APS support 7 days/week.
                               6:30am - 9:00pm
      Monday through Friday:
      Saturday, Sunday, Holidays: 8:30am - 5:00 pm
    The Help Desk staff at this number will handle all APS
    related questions.
   * * * * * * * * *
    >>>>>> NEW SUNDAY HOURS !!! <<<<<<<
    The APS is available:
           6:30am - 9:00pm Monday through Friday
           7:30am - 5:00pm Saturday, Sunday, Holidays
      APS is unavailable Thanksgiving Day, Christmas Day,
      and New Year's Day.
```

TILE OSPAT ENTERED AT 109:

* U.S. PATENT TEXT FILE

=> s nf kappa beta

9796 NF 4128 KAPPA

167222 BETA

L1 1 NF KAPPA BETA
(NF(W)KAPPA(W)BETA)

=> s nf kappa b

9796 NF 4128 KAPPA

1134873 B

L2 96 NF KAPPA B (NF (W) KAPPA (W) B)

=> s nf kb

9796 NF 12673 KB L3 62 NF KB

(NF(W)KB)

=> s 11 and 12 and 13

L4 0 L1 AND L2 AND L3

=> s 11 or 12 or 13

L5 142 L1 OR L2 OR L3

=> s 15 and (decoy or antagonist)

783 DECOY 8579 ANTAGONIST

L6 27 L5 AND (DECOY OR ANTAGONIST)

=> d 1-27

- 1. 5,756,718, May 26, 1998, Anti-endotoxin compounds; William J. Christ, et al., 536/123.13, 115, 117, 120
- 2. 5,750,652, May 12, 1998, Deltex proteins; Spyridon Artavanis-Tsakonas, et al., 530/350, 300, 326, 328; 930/10 [IMAGE AVAILABLE]
- 3. 5,747,338, May 5, 1998, Method and construct for screening for inhibitors of transcriptional activation; Klaus Giese, et al., 435/348, 252.3, 254.21, 320.1, 367; 536/24.5 [IMAGE AVAILABLE]
- 4. 5,747,072, May 5, 1998, Adenoviral-mediated gene transfer to synovial cells in vivo; Beverly L. Davidson, et al., 424/93.2; 435/69.5, 172.3, 320.1; 514/44 [IMAGE AVAILABLE]
- 5. 5,741,667, Apr. 21, 1998, Tumor necrosis factor receptor-associated factors; David V. Goeddel, et al., 435/69.1, 252.3, 320.1; 536/23.5

- 6. 5,733,543, Mar. 31, 1998, Introduction of HIV-protective genes into cells by particle-mediated gene transfer; Gary J. Nabel, et al., 424/93.21; 514/44; 935/59 [IMAGE AVAILABLE]
- 7. 5,726,297, Mar. 10, 1998, Oligodeoxyribonucleotide N3' P5' phosphoramidates; Sergei M. Gryaznov, et al., 536/22.1; 435/6; 436/501; 536/23.1, 24.1, 24.3, 24.31, 24.32, 24.33, 25.3; 935/77, 78 [IMAGE AVAILABLE]
- 8. 5,723,335, Mar. 3, 1998, Immune stimulation by phosphorothioate oligonucleotide analogs; Stephen L. Hutcherson, et al., 435/375; 424/1.73, 1.77, 280.1; 514/44; 536/23.1, 24.3, 24.31, 24.33 [IMAGE AVAILABLE]
- 9. 5,716,968, Feb. 10, 1998, Protein kinase C modulators. H.; Paul E. Driedger, et al., 514/323, 415, 483, 547 [IMAGE AVAILABLE]
- 10. 5,708,142, Jan. 13, 1998, Tumor necrosis factor receptor-associated factors; David V. Goeddel, et al., 530/350; 435/69.1, 252.3, 320.1; 536/23.5 [IMAGE AVAILABLE]
- 11. 5,705,615, Jan. 6, 1998, Antibodies specific for HT.sub.m4; Bing Lim, et al., 530/387.9, 388.23, 389.6 [IMAGE AVAILABLE]
- 12. 5,693,508, Dec. 2, 1997, Retroviral expression vectors containing MoMLV/CMV-IE/HIV-TAR chimeric long terminal repeats; Lung-Ji Chang, 435/172.3, 69.1, 320.1; 536/24.1 [IMAGE AVAILABLE]
- 13. 5,670,319, Sep. 23, 1997, Assay for tumor necrosis factor receptor-associated factors; David V. Goeddel, et al., 435/6, 7.1, 7.2, 69.7, 172.3; 536/23.4 [IMAGE AVAILABLE]
- 14. 5,663,153, Sep. 2, 1997, Immune stimulation by phosphorothioate oligonucleotide analogs; Stephen L. Hutcherson, et al., 514/44; 424/1.11, 1.73, 1.77, 278.1, 280.1; 536/23.1, 24.5 [IMAGE AVAILABLE]
- 15. 5,654,397, Aug. 5, 1997, Interleukin-1 receptor-associated protein kinase and assays; Zhaodan Cao, et al., 530/300; 435/4, 6; 536/23.1, 24.3 [IMAGE AVAILABLE]
- 16. 5,650,313, Jul. 22, 1997, Ubiquitin conjugating enzymes 8 and 9; Jian Ni, et al., 435/193, 69.1, 252.3, 320.1, 325, 352, 357, 358, 364, 365, 367; 536/23.2 [IMAGE AVAILABLE]
- 17. 5,650,306, Jul. 22, 1997, Recombinant nucleic acids for inhibiting HIV gene expression; Gary J. Nabel, et al., 435/172.3, 320.1; 536/23.72, 24.1, 24.5 [IMAGE AVAILABLE]
- 18. 5,648,248, Jul. 15, 1997, Methods for producing differentiated cells from immature hematopoietic cells; Martin Zenke, et al., 435/172.3, 377 [IMAGE AVAILABLE]
- 19. 5,639,598, Jun. 17, 1997, Method and kit for identification of antiviral agents capable of abrogating HIV Vpr-Rip-1 binding interactions; David B. Weiner, et al., 435/5, 7.1 [IMAGE AVAILABLE]
- 20. 5,631,135, May 20, 1997, Oligonucleotide N3'.fwdarw.P5' phosphoramidates: hybridization and nuclease resistance properties; Sergei M. Gryaznov, et al., 435/6, 91.1; 536/23.1, 24.3, 24.5, 25.4 [IMAGE AVAILABLE]
- 21. 5,624,912, Apr. 29, 1997, Method of treating HIV infection and related secondary infections with defibrotide; Arsinur Burcoglu, et al.,

- 22. 5,612,476, Mar. 18, 1997, Anti-endotoxin compounds; Liliam J. Christ, et al., 536/117, 4.1, 18.5 [IMAGE AVAILABLE]
- 23. 5,599,922, Feb. 4, 1997, Oligonucleotide N3'-P5' phosphoramidates: hybridization and nuclease resistance properties; Sergei M. Gryaznov, et al., 536/25.3; 435/6; 536/23.1 [IMAGE AVAILABLE]
- 24. 5,591,607, Jan. 7, 1997, Oligonucleotide N3.fwdarw.P5' phosphoramidates: triplex DNA formation; Sergei M. Gryaznov, et al., 435/91.1, 6; 536/23.1, 24.1, 24.5 [IMAGE AVAILABLE]
- 25. 5,563,039, Oct. 8, 1996, TNF receptor-associated intracellular signaling proteins and methods of use; David V. Goeddel, et al., 435/7.1, 6, 69.1, 252.3, 320.1; 436/501; 530/300, 350 [IMAGE AVAILABLE]
- 26. 5,556,956, Sep. 17, 1996, Methods and compositions relating to the androgen receptor gene and uses thereof; Arun K. Roy, et al., 536/24.1, 23.1, 24.3, 24.31 [IMAGE AVAILABLE]
- 27. 5,530,113, Jun. 25, 1996, Anti-endotoxin compounds; William J. Christ, et al., 536/123.13; 424/150.1, 282.1; 530/388.4, 389.5; 536/17.2, 18.5 [IMAGE AVAILABLE]

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

| G BLACK BURDERS | • | | |
|---|------------|-----------|-----|
| IMAGE CUT OFF AT TOP, BOTTOM O FADED TEXT OR DRAWING | R SIDES | | |
| ☐ BLURRED OR ILLEGIBLE TEXT OR D | RAWING | | |
| ☐ SKEWED/SLANTED IMAGES | | | |
| ☐ COLOR OR BLACK AND WHITE PHOT | TOGRAPHS | | |
| ☐ GRAY SCALE DOCUMENTS | <u>-</u> | | |
| LINES OR MARKS ON ORIGINAL DOC | UMENT | | |
| REFERENCE(S) OR EXHIBIT(S) SUBMI | TTED ARE I | POOR QUAL | ITY |
| OTHER | • | | |

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.